

Response to Office Action of: 08/11/2005  
Response Dated: 10/11/2005  
Title: Gel And Cushioning Devices

App. No.: 09/121,300  
Inventor: Bruce G. Kania et al.  
Examiner: David H. Willse

### **Amendment(s) to the Claims**

The following listing of claims replaces all prior versions and listings of claims in the present application:

#### **Listing of Claims:**

Claims 1-74 (canceled).

Claim 75 (currently amended): A cushion liner for enclosing an amputation stump, said liner comprising a fabric covering having an open end for introduction of said stump and a closed end opposite said open end, said fabric coated seamlessly on only an inside surface thereof with a polymeric cushioning ~~material~~ gel capable of forming an air-tight seal with said amputation stump when said liner is worn; wherein said liner is configured such that said polymeric cushioning ~~material~~ gel is in contact with the skin of said amputation stump when said liner is worn by a user thereof.

Claim 76 (currently amended): The cushion liner as claimed in claim 75, wherein said fabric is coated on the inside thereof with an uneven distribution of said polymeric cushioning ~~material~~ gel, said uneven distribution resulting in a thinner posterior middle and upper portion, and a thicker distal anterior-medial and anterior-lateral portion.

Claim 77 (currently amended): The cushion liner as claimed in claim 75, wherein said polymeric cushioning ~~material~~ gel is arranged in a recessed Achilles configuration.

Claim 78 (previously presented): The cushion liner as claimed in claim 75, having a length from closed end to open end of from 10-25 inches.

Claim 79 (canceled).

Claim 80 (currently amended): The cushion liner as claimed in claim 75, wherein said polymeric cushioning ~~material~~ gel has a thickness varying from 0.150-0.500 inches.

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Claims 81-84 (canceled).

Claim 85 (currently amended): The cushion liner as claimed in claim 75, wherein said fabric is completely coated on only the inside thereof with said polymeric cushioning ~~material~~ gel.

Claims 86-87 (canceled).

Claim 88 (currently amended): The cushion liner as claimed in claim 75, wherein said polymeric cushioning ~~material~~ gel includes a biocide.

Claim 89 (currently amended): The cushion liner as claimed in claim 75, wherein said polymeric cushioning ~~material~~ gel includes a vitamin.

Claims 90-91 (canceled).

Claim 92 (currently amended): A cushion liner for enclosing an amputation stump, said liner comprising a fabric covering having an open end for introduction of said stump and a closed end opposite said open end, said fabric coated seamlessly on only an inside thereof with a polymeric cushioning ~~material~~ gel capable of forming an air-tight seal with said amputation stump when said liner is worn; wherein said polymeric cushioning ~~material~~ gel is thicker at said closed end of said fabric than at said open end of said fabric; and wherein said liner is configured such that said polymeric cushioning ~~material~~ gel is in contact with the skin of said amputation stump when said liner is worn by a user thereof.

Claim 93 (currently amended): The cushion liner as claimed in claim 92, wherein said fabric is coated on the inside thereof with an uneven distribution of said polymeric cushioning ~~material~~ gel, said uneven distribution resulting in a thinner posterior middle and upper portion, and a thicker distal anterior-medial and anterior-lateral portion.

Claim 94 (currently amended): The cushion liner as claimed in claim 92, wherein said

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polymeric cushioning ~~material~~ gel is arranged in a recessed Achilles configuration.

Claim 95 (canceled).

Claim 96 (currently amended): The cushion liner as claimed in claim 92, wherein said polymeric cushioning ~~material~~ gel has a thickness varying from 0.150-0.500 inches.

Claims 97-98 (canceled).

Claim 99 (currently amended): The cushion liner as claimed in claim 92, wherein said fabric is completely coated on only the inside thereof with said polymeric cushioning ~~material~~ gel.

Claims 100-101 (canceled).

Claim 102 (currently amended): The cushion liner as claimed in claim 92, wherein said polymeric cushioning ~~material~~ gel includes a biocide.

Claim 103 (currently amended): The cushion liner as claimed in claim 92, wherein said polymeric cushioning ~~material~~ gel includes a vitamin.

Claims 104-105 (canceled).

Claim 106 (currently amended): A cushion liner for enclosing an amputation stump, said liner comprising a fabric covering having an open end for introduction of said stump and a closed end opposite said open end, said fabric coated seamlessly and directly on only an inside thereof with a polymeric cushioning ~~material~~ gel capable of forming an air-tight seal with said amputation stump when said liner is worn; wherein said liner is configured such that said polymeric cushioning ~~material~~ gel is in contact with the skin of said amputation stump when said liner is worn by a user thereof.

Claim 107 (currently amended): The cushion liner as claimed in claim 106, wherein said polymeric cushioning ~~material~~ gel has a thickness varying from 0.150-0.500 inches.

Claims 108-109 (canceled).

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Claim 110 (currently amended): A cushion liner for enclosing an amputation stump, said liner comprising a fabric covering having an open end for introduction of said stump and a closed end opposite said open end, said fabric coated seamlessly and directly on only an inside thereof with a nonporous polymeric cushioning material gel capable of forming an air-tight seal with said amputation stump when said liner is worn; wherein said polymeric cushioning material gel is thicker at said closed end of said fabric than at said open end of said fabric; and wherein said liner is configured such that said polymeric cushioning material gel is in contact with the skin of said amputation stump when said liner is worn by a user thereof.

Claim 111 (currently amended): The cushion liner as claimed in claim 110, wherein said polymeric cushioning material gel has a thickness varying from 0.150 - 0.500 inches.

Claims 112-113 (canceled).

Claim 114 (currently amended): A cushion liner for enclosing an amputation stump, said liner comprising a fabric covering having an open end for introduction of said stump and a closed end opposite said open end, said fabric coated on only an inside thereof with a polymeric cushioning material gel capable of forming an air-tight seal with said amputation stump when said liner is worn; wherein said liner is donned by inverting and rolling said liner onto said amputation stump; and wherein said liner is configured such that said polymeric cushioning material gel is in contact with the skin of said amputation stump after donning.

Claim 115 (currently amended): The cushion liner as claimed in claim 114, wherein said polymeric cushioning material gel has a thickness varying from 0.150 - 0.500 inches.

Claims 116-117 (canceled).

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Claim 118 (currently amended): A cushion liner for enclosing an amputation stump, said liner comprising a fabric covering having an open end for introduction of said stump and a closed end opposite said open end, said fabric coated on only an inside thereof with a polymeric cushioning material gel capable of forming an air-tight seal with said amputation stump when said liner is worn; wherein said polymeric cushioning material gel is thicker at said closed end of said fabric than at said open end of said fabric; wherein said liner is donned by inverting and rolling said liner onto said amputation stump; and wherein said liner is configured such that said polymeric cushioning material gel is in contact with the skin of said amputation stump after donning.

Claim 119 (currently amended): The cushion liner as claimed in claim 118, wherein said polymeric cushioning material gel has a thickness varying from 0.150 - 0.500 inches.

Claim 120 (previously presented): The cushion liner as claimed in claim 118, further comprising docking means at a distal end thereof.

Claim 121 (previously presented): The cushion liner as claimed in claim 120, wherein said docking means is molded to said fabric on an exterior of said liner.

Claims 122-123 (canceled).

Claim 124 (currently amended): The cushion liner as claimed in claim 75, wherein said polymeric cushioning material gel has a thickness profile such that said polymeric cushioning material gel is thicker at a closed end of said covering than at an open end.

Claim 125 (currently amended): The cushion liner as claimed in claim 75, wherein said polymeric cushioning material gel includes mineral oil.

Claim 126 (previously presented): The cushion liner as claimed in claim 75, further comprising docking means at a distal end thereof.

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Claim 127 (previously presented): The cushion liner as claimed in claim 126, wherein said docking means is molded to said fabric on an exterior of said liner.

Claim 128 (currently amended): The cushion liner as claimed in claim 92, wherein said polymeric cushioning ~~material~~ gel includes mineral oil.

Claim 129 (previously presented): The cushion liner as claimed in claim 92, further comprising docking means at a distal end thereof.

Claim 130 (previously presented): The cushion liner as claimed in claim 129, wherein said docking means is molded to said fabric on an exterior of said liner.

Claim 131 (currently amended): The cushion liner as claimed in claim 106, wherein said polymeric cushioning ~~material~~ gel is thicker at said closed end of said fabric than at said open end of said fabric.

Claim 132 (currently amended): The cushion liner as claimed in claim 106, wherein said fabric is coated on the inside thereof with an uneven distribution of said polymeric cushioning ~~material~~ gel, said uneven distribution resulting in a thinner posterior middle and upper portion, and a thicker distal anterior-medial and anterior-lateral portion.

Claim 133 (currently amended): The cushion liner as claimed in claim 106, wherein said polymeric cushioning ~~material~~ gel is arranged in a recessed Achilles configuration.

Claim 134 (previously presented): The cushion liner as claimed in claim 106, having a length from closed end to open end of from 10-25 inches.

Claim 135 (currently amended): The cushion liner as claimed in claim 106, wherein said fabric is completely coated on only the inside thereof with said polymeric cushioning ~~material~~ gel.

Claim 136 (currently amended): The cushion liner as claimed in claim 106, wherein said

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polymeric cushioning ~~material~~ gel includes a biocide.

Claim 137 (currently amended): The cushion liner as claimed in claim 106, wherein said polymeric cushioning ~~material~~ gel includes a vitamin.

Claim 138 (currently amended): The cushion liner of claim 106, wherein said polymeric cushioning ~~material~~ gel includes mineral oil.

Claim 139 (previously presented): The cushion liner as claimed in claim 106, further comprising docking means at a distal end thereof.

Claim 140 (previously presented): The cushion liner as claimed in claim 139, wherein said docking means is molded to said fabric on an exterior of said liner.

Claim 141 (currently amended): The cushion liner as claimed in claim 110, wherein said fabric is coated on the inside thereof with an uneven distribution of said polymeric cushioning ~~material~~ gel, said uneven distribution resulting in a thinner posterior middle and upper portion, and a thicker distal anterior-medial and anterior-lateral portion.

Claim 142 (currently amended): The cushion liner as claimed in claim 110, wherein said polymeric cushioning ~~material~~ gel is arranged in a recessed Achilles configuration.

Claim 143 (previously presented): The cushion liner as claimed in claim 110, having a length from closed end to open end of from 10-25 inches.

Claim 144 (currently amended): The cushion liner as claimed in claim 110, wherein said fabric is completely coated on only the inside thereof with said polymeric cushioning ~~material~~ gel.

Claim 145 (currently amended): The cushion liner as claimed in claim 110, wherein said polymeric cushioning ~~material~~ gel includes a biocide.

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Claim 146 (currently amended): The cushion liner as claimed in claim 110, wherein said polymeric cushioning ~~material~~ gel includes a vitamin.

Claim 147 (currently amended): The cushion liner of claim 110, wherein said polymeric cushioning ~~material~~ gel includes mineral oil.

Claim 148 (previously presented): The cushion liner as claimed in claim 110, further comprising docking means at a distal end thereof.

Claim 149 (previously presented): The cushion liner as claimed in claim 148, wherein said docking means is molded to said fabric on an exterior of said liner.

Claim 150 (currently amended): The cushion liner as claimed in claim 114, wherein said fabric is coated on the inside thereof with an uneven distribution of said polymeric cushioning ~~material~~ gel, said uneven distribution resulting in a thinner posterior middle and upper portion, and a thicker distal anterior-medial and anterior-lateral portion.

Claim 151 (currently amended): The cushion liner as claimed in claim 114, wherein said polymeric cushioning ~~material~~ gel is arranged in a recessed Achilles configuration.

Claim 152 (previously presented): The cushion liner as claimed in claim 114, having a length from closed end to open end of from 10-25 inches.

Claim 153 (currently amended): The cushion liner as claimed in claim 114, wherein said fabric is completely coated on only the inside thereof with said polymeric cushioning ~~material~~ gel.

Claim 154 (currently amended): The cushion liner as claimed in claim 114, wherein said polymeric cushioning ~~material~~ gel includes a biocide.

Claim 155 (currently amended): The cushion liner as claimed in claim 114, wherein said polymeric cushioning ~~material~~ gel includes a vitamin.



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Claim 156 (currently amended): The cushion liner of claim 114, wherein said polymeric cushioning ~~material~~ gel includes mineral oil.

Claim 157 (previously presented): The cushion liner as claimed in claim 114, further comprising docking means at a distal end thereof.

Claim 158 (previously presented): The cushion liner as claimed in claim 157, wherein said docking means is molded to said fabric on an exterior of said liner.

Claim 159 (currently amended): The cushion liner as claimed in claim 118, wherein said fabric is coated on the inside thereof with an uneven distribution of said polymeric cushioning ~~material~~ gel, said uneven distribution resulting in a thinner posterior middle and upper portion, and a thicker distal anterior-medial and anterior-lateral portion.

Claim 160 (currently amended): The cushion liner as claimed in claim 118, wherein said polymeric cushioning ~~material~~ gel is arranged in a recessed Achilles configuration.

Claim 161 (previously presented): The cushion liner as claimed in claim 118, having a length from closed end to open end of from 10-25 inches.

Claim 162 (currently amended): The cushion liner as claimed in claim 118, wherein said fabric is completely coated on only the inside thereof with said polymeric cushioning ~~material~~ gel.

Claim 163 (currently amended): The cushion liner as claimed in claim 118, wherein said polymeric cushioning ~~material~~ gel includes a biocide.

Claim 164 (currently amended): The cushion liner as claimed in claim 118, wherein said polymeric cushioning ~~material~~ gel includes a vitamin.

Claim 165 (currently amended): The cushion liner of claim 118, wherein said polymeric cushioning ~~material~~ gel includes mineral oil.